**Foreign collaboration with Italian firms**

*18. SHRI KAILASH PATI MISHRA:

SHRI ATAL BIHARI VAJPAYEE

Will the Minister of INDUSTRY be pleased to state:

(a) the number of foreign collaborations with Italian firms indicating their value, approved during the period 1980-82, 1982-84; and 1984-86; and

(b) the number and value of similar foreign collaborations during the same period with USA, USSR and UK?

THE MINISTER OF INDUSTRY (SHRI J. VENGAL RAO): (a) and (b) Statement showing Country-wise and Investment wise Break-up of foreign collaboration proposals approved in favour of Italy, USA, USSR and UK for the period 1980 to 1986 is laid on the Table of the House. [*See* Appendix CXLIII, Annexure No. 14].

**Study on Solar Energy**

*19. SHRI SOHAN LAL DHUSIYA:
SHRI RAM CHANDRA VIKAL:

Will the Minister of ENERGY be pleased to state:

(a) whether Government have conducted any further study for the conversion of sunlight into electricity; and

(b) if so, what are the details thereof and by when the results are likely to be achieved?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): (a) and (b) Yes, Sir. Studies to convert solar energy into electrical energy have been done and various technology options have been implemented. In the solar thermal area one solar power plant of 22 KW electric capacity using points focussing collectors and steam engine has recently been installed at village Sallojipally in Andhra Pradesh. The performance of the plant is now being studied. Another power plant of capacity 50 KW using line focussing collectors and steam turbine has been designed and is being installed in Solar Energy Centre of Department of Non-Conventional Energy Sources, at Gwal Pahari, Distt. Gurgaon, Haryana. The third power plant of capacity 50KW using point focussing collector and stirling engine is proposed to be installed also in the Solar Energy Centre of Department of Non-Conventional Energy Sources. A feasibility study for setting up 30MW solar power plant has been prepared and sites are being explored for setting up such power plants in the country. In the solar photovoltaic area a number of small power units have been installed for meeting drinking water requirements, lighting and community T.V. Sets, in several parts of the country. More than 700 villages are already getting lighting from solar powered electricity. The Deptt. has also approved establishment of photovoltaic power plants in Orissa, Haryana and in Gujarat in KW range. Several other small solar photovoltaic power plants are also being set up in Jammu and Kashmir, Lakshadweep, Mizoram, Nagaland etc.

**उद्योगों को सप्लाई किए गए कोयले में पत्थरों की मात्रा**

*20. श्री मीर्जा इर्शादबेग : क्या ऊर्जा मंत्री यह बताने की कृपा करेंगे कि :

(क) क्या यह सच है कि खानों से औद्योगिक एककों को सप्लाई किए जाने वाले कोयले में पत्थरों की बहुत अधिक मात्रा पाई गई है ;

(ख) क्या इस संबंध में कोई अभ्यावेदन प्राप्त हुए हैं ; यदि हां, तो उनका ब्यौरा क्या है ; और